

Title (en)  
MULTI-CORE PROCESSOR SYSTEM, ARBITRATION CIRCUIT CONTROL METHOD, AND ARBITRATION CIRCUIT CONTROL PROGRAM

Title (de)  
MULTIKERNPROZESSORSYSTEM, STEUERUNGSVERFAHREN FÜR EINE ARBITRIERUNGSSCHALTUNG UND STEUERPROGRAMM FÜR EINE ARBITRIERUNGSSCHALTUNG

Title (fr)  
SYSTÈME PROCESSEUR MULTICOEUR, PROCÉDÉ DE COMMANDE DE CIRCUIT D'ARBITRAGE ET PROGRAMME DE COMMANDE DE CIRCUIT D'ARBITRAGE

Publication  
**EP 2549384 A4 20130522 (EN)**

Application  
**EP 10847910 A 20100318**

Priority  
JP 2010054709 W 20100318

Abstract (en)  
[origin: EP2549384A1] CPUs acquire for each of the CPUs, a measured speed of access to a shared memory via an acquiring unit. The CPUs calculate for each of the CPUs response performance of the CPU from the measured access speed and a theoretical access speed for the CPU via a response performance calculating unit. Another CPU calculates ratios of access rights of the plurality of CPUs to the shared memory via an access ratio calculating unit such that a ratio of an access right of a CPU is larger than a ratio of an access right of another CPU whose response performance is higher than that of the CPU. The other CPU notifies an arbiter circuit of the ratios of the access rights calculated, via a notifying unit.

IPC 8 full level  
**G06F 9/46** (2006.01); **G06F 15/16** (2006.01)

CPC (source: EP US)  
**G06F 9/5016** (2013.01 - US); **G06F 9/5083** (2013.01 - EP US); **G06F 13/1605** (2013.01 - US); **G06F 13/1652** (2013.01 - US); **G06F 13/16** (2013.01 - US)

Citation (search report)

- [Y] EP 1785828 A1 20070516 - HITACHI LTD [JP]
- [Y] US 2006136681 A1 20060622 - JAIN SANJEEV [US], et al
- See references of WO 2011114496A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2549384 A1 20130123; EP 2549384 A4 20130522; EP 2549384 B1 20180103**; CN 102804149 A 20121128; CN 102804149 B 20160113; JP 5541355 B2 20140709; JP WO2011114496 A1 20130627; US 2013013834 A1 20130110; US 9110733 B2 20150818; WO 2011114496 A1 20110922

DOCDB simple family (application)  
**EP 10847910 A 20100318**; CN 201080065475 A 20100318; JP 2010054709 W 20100318; JP 2012505399 A 20100318; US 201213613634 A 20120913